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⌘ Title: **JP06228186A2: 2'-DEOXY-@(3754/24)2'S)-ALKYLPYRIMIDINE NUCLEOSID  
DERIVATIVE**

⌘ Derwent Title: New 2'-deoxy-(2'S)-alkyl:pyrimidine nucleoside derivs. - are antiviral  
agents against e.g. herpes simplex. [\[Derwent Record\]](#)

⌘ Country: JP Japan  
⌘ Kind: A

⌘ Inventor: MATSUDA AKIRA;  
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⌘ Assignee: YAMASA SHOYU CO LTD  
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⌘ Published / Filed: 1994-08-16 / 1993-01-29

⌘ Application  
Number: JP1993000034495

⌘ IPC Code: [C07H 19/06](#); [A61K 31/70](#);

⌘ Priority Number: 1993-01-29 JP1993000034495

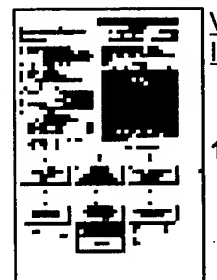
⌘ Abstract: PURPOSE: To obtain the subject new derivative, composed of a  
2'-deoxy-(2'S)- alkylpyrimidine nucleoside derivative, having  
excellent antiviral activity, good in absorbability, solubility and  
stability with hardly any side effects and useful as an antiviral agent,  
etc.

CONSTITUTION: The 2'-position of the saccharide part in a  
pyrimidine nucleoside derivative expressed by formula I (R1 is  
amino or OH; Z is protecting group) is alkylated with an alkylating  
agent (e.g. methylmagnesium bromide) to provide a compound  
expressed by formula II (R3 is lower alkyl). The hydroxyl group at  
the 2'-position of the saccharide part in the produced compound  
expressed by formula II is then acylated with an acylating agent  
(e.g. methyloxalyl chloride) and subsequently reduced with a  
reducing agent (e.g. tributyltin hydride) to afford a compound  
expressed by formula III. The basic part at the 5-position thereof is  
further halogenated with a halogenating agent (e.g. N-  
iodosuccinimide) and the protecting group of the saccharide part is  
then released. The 5'-position of the saccharide part, as necessary,  
is subsequently phosphorylated to afford the objective nucleoside  
derivative expressed by formula IV (R2 is halogen; R4 is H or  
phosphoric acid residue).



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⌘ Family: None

⌘ Forward [Go to Result Set: Forward references \(2\)](#)



## References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6914054</a>	2005-07-05	Sommadossi; Jean-Pierre	Idenix Pharmaceuticals, Inc.	Methods and compositions for treating hepatitis C v
	<a href="#">US5627053</a>	1997-05-06	Usman; Nassim	Ribozyme Pharmaceuticals, Inc.	2'-deoxy-2'-alkylnucleotide containing nucleic acid

Other Abstract  
Info:

CHEMABS 122(03)031836U CAN122(03)031836U DERABS C94-299800 DERC94-299800  
JAPABS 180601C000160 JAP180601C000160



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